

UNGLASSIFIED PROCESSING DATE--230CT70

OZ POUG ILITY OF HIGH STRENGTH CONSTRUCTIONAL ALLOY STEELS -U-

AUTHOR-(51-BRAIN, M.P., BORTSOV, G.R

KRUKOV- AYA, G.N., MORZHARETTO,

A.A., SERGEYEV I.V.

M

SOURCE--IZ. . VYSSH. UCHEB. ZAVED., CHERN. MET. 1970, 13(2), 123-5

DATE PUBLISHED----70

SUBJECT AREAS--MATERIALS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--STRUCTURAL STEEL, IMPACT STRENGTH, STEEL HEAT TREATMENT, STEEL HARDENING, METAL CASSING, ALLOY STEEL, CHROMIUM STEEL, MANGANESE STEEL

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME-- 294/1787 STE > NO--UR/0148/70/013/002/0123/0125

CIRC ACCESSION NO--ATOLISELE

UNCLASSIFIED

PROCESSING DATE--230CT70. UNCLASSIFIED 027 ABSTRACT. THE IMPACT STRENGTH OF THE CAST CIRC ACCESSION NO--ATO115616 2/2 CONSTRUCTION STEEL WAS INCREASED BY APPLYING OPTIMAL ALLOYING AND HEAT ABSTRACT/EXTRACT--(U) GP-0-TREATMENT WHILE MAINTAINING 36-37 HRC HARDNESS. EIGHT GRADES OF STEEL (CR 1.08-1.66, SI 0.40-2.79, MN 1.58-Z.29PERCENT) WERE MELTED IN A BASIC INDUCTION FURNANCE DEOXIDIZED WITH O. IPERCENT AL, AND CAST. THE CASTINGS WERE ANNEALED 6 HR AT 950DEGREES AND GUT INTO BARS WHICH WERE BILLETS WERE (1) QUENCHED FROM 930-40DEGREES, (2) NORMALIZED AT 930-40DEGREES WITH SUBSEQUENT TEMPERING NORMALIZED AT 950DEGREES. AT 200DEGREES, OR (3) HEATED 1 HR AT 300-320DEGREES AND MUENCHED IN MOLTEN SALTPETER. THE IMPACT STRENGTH AND HARDNESS WERE DETD. AFTER EACH OF THE 3 HEAT TREATMENT CONDITIONS: A STEEL AT GIVEN CONDITIONS AFTER LOW TEMP. TEMPERING MAY HAVE A LARGER OPTIMUE CONCN. OF CR. MN AND SOME OTHER ALLOYING ELEMENTS THAN AFTER MEDIUM OR HIGH TEMP. TEMPERING. THE OPTIMUM CONCUS. OF THE ALLOYING INGREDIENTS ARE INTERRELATED. FACILITY: INST. PROBL. LIT'VA, KIEV, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

UNCLASSIFIED PROCESSING DATE--230CT7C

1/2 010 PROCESSING DATE--230CT7C

TITLE--INTERCHANGEABILITY OF THERMO BIMETALLIC PLATES -U-

AUTHOR-(02)-MOSALOV, A.N., TOYGANBAYEV, YE.A.

COUNTRY OF INFO--USSR

Part

SOURCE--STANDARTY I KACHESTVO, 1970, NR 5, PP 45-48

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS--BIMETAL, TECHNICAL STANDARD, PRECISION INSTRUMENT INDUSTRY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/1556

STEP NO--UR/0422/70/000/005/0045/0048

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CIRC ACCESSION NO--AP0120335

UNCLASSIFIED

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PROCESSING DATE--230CT7

CIRC ACCESSION NO--APO120335

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. ACCURACY OF MANUFACTURE OF THERMO BIMETALLIC PRATES IS CONSIDERED IN RELATION TO THEIR FUNCTIONAL BIMETALLIC PRATES. IS CONSIDERED IN SEFUL TO DESIGNERS, PRODUCTION INTERCHANGEABILITY. THE ARTICLE IS USEFUL TO DESIGNERS, PRODUCTION ENGINEERS AND STANDARDIZATION WORKERS IN METALLURGY AND INSTRUMENT ENGINEERING.

UNCLASSIFIED

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UNCLASSIFIED PROCESSING DATE--090C170
TITLE--STATISTICAL ANALYSIS OF THE DECARBURIZATION DYNAMICS OF A MOLTEN
METAL -UAUTHOR-(05)-KAGANOV, V.YU., SURGUCHEV, G.D., DERKACHEV, YE.N., MOSALOV,
AUTHOR-(105)-KAGANOV, V.YU., SURGUCHEV, G.D., DERKACHEV, YE.N., MOSALOV,
G.I., TITOV, V.I.
COUNTRY OF INFO--USSR

SOURCE--IZV. VYSSH. UCHEB. ZAVED., CHERN MET. 1970, 13(1), 167-71

DATE PUBLISHED----70

SUBJECT AREAS - MATERIALS

TOPIC TAGS-DECARBURIZATION, LIQUID METAL, STATISTIC ANALYSIS, DXYGEN, CARBON, FLUID DYNAMICS

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—1931/0594

STEP NO--UR/0148/70/013/001/0167/0171

CIRC ACCESSION NO--AT0050601

UNCLASSIFIED

PROCESSING DATE--090CT70 UNCLASSIFIED 039 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. REMOVAL OF C FROM A LIQ. METAL IS A COMPLEX PROCESS, NOT ALWAYS SUSCEPTIBLE TO RECOGNIZED FORMS OF ANAL. RESULTS ARE GIVEN OF STATISTICAL ANAL. OF RANDOM FUNCTIONS DETG. THE DYNAMICS OF DECARBURIZATION OF FUSED METAL BY THE INTRODUCTION OF O. THE CONNECTION BETWEEN AMT. OF O ADDN. AND RATE OF DECARBURIZATION (U(T)-V(T)) IS DETD., THOUGH THIS IS DIFFICULT IN VIEW OF THE MULTIPLE PROBABILITY SURFACES OF THE RANDOM FUNCTIONS, AND HENCE, ONLY THE SIMPLEST APPROXNS. CAN BE EXAMO. CURVES ARE GIVEN TO COMPARE THE MATH. EXPECTATION AND MEAN SQUARE DEVIATIONS OF EXPTL. MELTS WITH RESULTS ACTUALLY OBTAINED. THE C CONTENT EXERCISES ONLY A SHALL EFFECT ON THE MATH. EXPECTATION OF V(T). DECARBURIZATION IS A NONSTATIONARY EFFECT FOR STEEL MELTS. OWING TO A COMBINATION OF INTERNAL COMPN. FACTORS. UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--04DEC70
1/2 020
TITLE--RADIOLYSIS OF 1, HEXADECANE AND 1, DCT ADECANETHIOLS -U-

AUTHOR-(03)-CHIRAKADZE, G.G., NANOBASHVILI, YE.M., MUSASHVILI, G.A.

COUNTRY OF INFO--USSR

SOURCE--SOOBSHCH. AKAD. NAUK BRUZ. SSR 1970, 57(2), 341-4

DATE PUBLISHED----70

SUBJECT AREAS-CHEMISTRY, NUCLEAR SCIENCE AND TECHNOLOGY

TOPIC TAGS--RADIOLYSIS, DECANE, THIOL, X RAY, GAMMA RADIATION, SULFIDE, SULFONIC ACID

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0797

STEP NO--UR/0251/70/057/002/0341/0344

CIRC ACCESSION NO--APO136231

UNCLASSIFIED

PROCESSING DATE--04DEC70 UNCLASSIFIED ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE TITLE COMPDS., (I) AND (II), CIRC ACCESSION NO--APO136231 RESP., WERE EXPOSED TO X AND GAMMA RAYS. L HAVING RECIEVED A DOSE OF 2.2 TIMES 10 PRIME19 OR 3.6 TIEMS 10 PRIME19 EV-ML SHOWED A CONVERSION YIELD OF 0.4 TIMES 10 PRIME NEGATIVES OR 0.8 TIMES 10 PRIME NEGATIVES I DISSOLVED IN ORG. SOLVENTS WAS CONSIDERABLY MORE SENSITIVE TO CHANGES. THE EXTENT BEING A FUNCTION OF SOLVENT POLARITY: A 0.008M SOLN. IN ETOH HAVING RECEIVED A DOSE OF 0.9 TIMES 10 PRIME19 OR 3.6 TIMES 10 PRIME19 EV-ML SHOWED A DECOMPN. OF 0.75 TIMES 10 PRIME NEGATIVES OR 2 TIMES 10 PRIME NEGATIVES I MOLE-L. AND A 0.008M SOLN. IN ISOOCTANE UNDER THE SAME CONDITIONS, 0.49 TIMES 10 PRIME NEGATIVES OR 1.2 TIMES 10 PRIME NEGATIVES I MOLE-L., RESP. DOUBLING THE CONCN. OF I NEGLIGIBLY RAISED THE CONVERSION OF I. II BEHAVED SIMILARLY WHEN TESTED UNDER SIMILAR CONDITIONS. THE MAIN CONVERSION PRODUCTS WERE THE CORRESPONDING DISULFIDES (SULFIDES, SULFONIC ACIDS, AND H SUB2 S WERE FORMED ONLY IN MINOR AMTS.). THE COMPARISON OF THESE DATA WITH THOSE FOR LOWER MOL. WT. HOMOLOGS SHOWS THAT THE EFFECTS OF MOL. WT. DIMINISHES SHARPLY STARTING WITH L AND THE HIGHER THIOLS RESEMBLE INST. FACILITY: RADIATION STABLE HYDROCARBONS IN MANY RESPECTS. NEORG. KHIM. ELEKTROKHIM., TBILSI, USSR. UNCLASSIFIED

USSR UDC: 621,791,011

GORDAN', G. N., DZYKOVICH, I. Ya., MAKARA, A. M., MOSENDZ, N. A., and SARZHEVSKIY, V. A.

"High-Temperature Chemical Inhomogeneity in the Weld-Affected Zone"

Moscow, Fizika i Khimiya Obrabotki Materialov, no 6, Nov-Dec 70, pp 114-119

Abstract: An analysis is presented of regularities in the development of high-temperature chemical microinhomogeneities on heating specimens of heat-resistant steels. The heating was carried out in welding thermal cycles to temperatures observed in the weld-affected zone of real welds. The steels involved were 30KhGSNA, 42Kh2GSNMA, 28Kh3SNMVFA, and others. The specimens measured 5 x 5 mm. The magnitude of the chemical inhomogeneity formed on high-temperature heating of rolled steels. the inhomogeneity of the weld-affected zone of real welds appear to be comparable to that of a dendritic inhomogeneity which generally develops in the crystallization of welds and ingots of a similar composition. The formation of a chemical inhomogeneity along the grain boundaries on high-temperature heating of steels, and the redfatribution and the changes in the shape of the nonmetallic

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USSR

UDO 621.382.3

KOPYL, G. F., MOSENKIS, L. M.

"Forecasting the Stability of Noise in Transistor Circuits"

Kiev, Pribory i sredstva avtomatiki (Devices and Means of Automation), "Nauk. dumka," 1970, pp 103-112 (from RZh-Elek-tronika i yeye primeneniye, No 3, March 1971, Abstract No 3B197)

Translation: The dependence of the noise factor of combined translator circuits on the internal resistance of a signal source is determined. The minimum noise level of the circuit is observed when the magnitude of the resistance of the signal source is close to the nagnitude of the impedance input of the circuit. Change of the noise factor in time is explained by the instability of the flicker noise of a translator caused by irreversible changes in the body and on the surface of semiconductor devices. 4 illustrations, 6 references. N.K.

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Welding

USSR

UDG 621.791.75:004.17

ASNIS, A. YE., IVASHCHENKO, G. A., Institute of Electric Welding imeni Ye. O. Paton, Academy of Sciences Ukrainian SSR, and MOSENKIS, YU. G., Leninskaya Kuznitsa Plant

"Properties of Welded Joints With High-Strength Welds"

Kiev, Avtomaticheskaya Svarka, No 3, Mar 71, pp 15-17

Abstract: The properties of low-carbon steel welded joints with high-strength welds were studied under the condition of retaining sufficient weld plasticity. It is shown that under this condition, high-strength welds do not differ from joints with ordinary welds. Micromechanical test data show the variation of mechanical properties of the joint in the weld and the weld-affected zone during welding by UONI-13/45 electrodes, Sv-08G25 wire in carbon dioxide, ANP-1 (ANV-70) electrodes, and Sv-08KhGShF wire in carbon dioxide. For comparison of the deformability of welded joints with ordinary and high-strength welds, samples were manufactured with a two-way bead forming in a groove (type 1) and 1/2

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ASNIS, A. YE., et al., Avtomaticheskaya Svarka, No 3, Mar 71, pp 15-17

butt joints with complete penetration (the weld of ordinary strength) and with poor penetration to 40 percent of the cross section of the specimen (high-strength weld) from which type 2 specimens were made. A true stress diagram is presented for the type 2 samples samples using various electroden and wire. It is noted that tensometric measurements of the reasons in the welded joint under tension demonstrated that in the initial stage of plastic flow the stress growth rate in the basic metal, the weld-affected zone, and the weld is different. As a result of low plasticity of welds made by chalk-coated electrodes, cracks occurred in the welds with insignificant strain. In high-strength welds made by ANP-1 electrodes and Sv-DSKhGSMF wire no cracks occurred during this stage.

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- 77 -

B. Graph Theory

USSR

UDC: 519.1

MOSESYAN, K. M.

"Some Theorems on Strongly Based Graphs"

Dokl. AN ArmSSR (Reports of the Academy of Sciences of the Armenian SSR), 1972, 54, No 5, pp 241-245 (from RZh-Kibernetika, No 5, May 73, abstract No 5V468 by V. Titov)

Translation: If the edges of an unoriented graph can be assigned an orientation so that it becomes a basis graph of partial ordering, we shall say that the graph has a strongly basing orientation. A graph having a strongly basing orientation is called strongly based. For strong basing of a planar graph it is necessary and sufficient that it contain no triangles.

Theorem 1. If the graph is strongly based and there exists a strongly basing orientation such that the length of the simplest path is equal to p then there exists an even number of no less than p+1 different strongly basing orientations in each of which the length of the simplest path is not greater than p.

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MOSESYAN, K. M., Dokl. AN ArmSSR, 1972, 54, No 5, pp 241-245

Corollary 1. If a (finite) graph is strongly based, then for an arbitrary vertex α there exists at least one strongly basing orientation such that in the resultant oriented graph all arcs incident on α emerge from α (converge on α).

Corollary 2. If a graph is strongly based, then there exists for it an even number not less than the chromatic number of the graph of different strongly based crientations. See also RZhMat, 1972, 10V356; 1973, 1V524. There are misprints in the bibliography and in the references to the bibliography.

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"APPROVED FOR RELEASE: 07/20/2001

UDC 621.791:338.45

MOSENKIS, Yu. G., "Lenin Forge" Plant, ASNIS, A. YE., and KHARCHENKO, P. F., Institute of Electric Welding imeni YE. O. Paton, Academy of Sciences UkrSSR

"Efficiency of Using New Welding Materials for Corner Joints With Reduced Cross Section"

Kiev, Avtomaticheskaya Svarka, No 9, Sep 70, pp 61-63

Abstract: A study was made of the economy of welded constructions with reduced amounts of weld metal. In square Tee-joints, in the absence of bevelled edges, the amount of weld metal can be reduced by reducing the fillet weld size. This can be done by using electrode materials of higher strength, which would ensure adequate plasticity of the weld. A table shows the economy of reducing fillet weld size in manual and semi-automatic welding in CO2, using UONI-13/45 and ANP-1 electrodes and Sv-08G2S and Sv-08KhG5MF wires. A figure shows the technological cost of 1 km of square Tee-joint by semi-automatic welding in CO2, depending on fillet size.

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PROCESSING DATE--230CT70

TITLE--PREPARATION OF SHELL MOLDS BY USING ETHYL SILICATE 40 FOR

INVESTMENT CASTING -U-

AUTHOR-(05)-OZEROV, V.A., SAKODYNSKIY, K.I., SHPRITS, B.B., MOSEVA, L.I.,

BERKOVSKIY, V.M.

COUNTRY OF INFO--USSR

SOURCE--LITEINDE PROIZOD. 1970, 2, 14-15

DATE PUBLISHED----70

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SUBJECT AREAS--MATERIALS, MECH., IND., CIVIL AND MARINE ENGR TOPIC TAGS--SHELL MOLD, INVESTMENT CASTING, ORGANIC SILICATE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1735

STEP NO--UR/0128/70/002/000/0014/0015

CIRC ACCESSION NO--APOII8713

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

PROCESSING DATE--230CT70 UNCLASSIFIED 2/2 013 CIRC ACCESSION NO--APO118713 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE APPLICATION OF ET SILICATE-40 TO SHELL MOLDS MADE IT NECESSARY TO FOLLOW THE PROCESSES OCCURRING DURING THE PREPN. OF THE BUNDING SOLN. PROPERTIES OF THE SOLN. ARE DEPENDENT ON THE CONTENT OF FREE H SUB2 O. CHROMOATOG. OF HYDROLYZED ET SILICATE SOLN. IS USED TO DET. THE PROCESSES OCCURRING DURING HYDROLYSIS. ON THIS BASIS, IT IS POSSIBLE TO CHOOSE: AN OPTIMUM RECIPE, A MANNER OF HYDROLYSIS, A MEANS OF PREPN. OF SHELL MOLDS FOR EACH PROCESS VARIANT, AND A MEANS OF CONTROLLING THE COMPN. OF HYDROLYZED SOLNS. THE ADDN. OF ET SILICATE-40 DECREASED THE COST OF THE BONDING AGENT AND INCREASED THE PRODUCTIVITY OF SHELL MOLD PREPN.

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UDC 512.25/.26+519.3:330.115

MOSEVICH, K. K.

"Solution of Certain Maximin Problems"

Kihernetiku -- na Zluzhbu Kommunizmu. T. 6 [Cybernetics in the Service of Communism, Vol 6 -- Collection of Works], Moscow, Energiya Press, 1971, pp 220-232, (Translated from Referativnyy Zhurnal, Kibernetika, No 10, 1971, Abstract No 10 V673 by L. Bregman).

Translation: A system of linear inequalities

$$Ax + By < C + \sum_{i=1}^{n} D_i \alpha_i,$$

$$N_i \alpha_i < M_i \ (i = 1, 2, ..., n),$$

$$x > 0, y > 0, \alpha_i > 0,$$
(1)

is studied, where x, y, α_i are the dimensionality vectors of r_1 , r_2 and δ_i respectively; C and M_i are constant dimensionality vectors of r_3 and γ_i ; A, B, D, are the matrices of the corresponding dimensionalities, and the function

$$H(x, y, \alpha_1, ..., \alpha_n) =$$
 (m, x), if x, y and α_1 satisfy systems (1), ∞ otherwise.

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- 25 -

USSR
MOSEVICH, K. K., Kibernetiku -- na Zluzhbu Kommunizmu. T. 6, Moscow, Energiya
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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

USSR

UDC 547.963.3

DRABKINA, L. Ye. and MOSEVITSKIY, hart. Physico-Technical Institute imeni A. F. Joffe, Academy of Sciences USSR, Leningrad

"Influence of Metabolic Toxins on the Formation of the Helical Ring Form of Lambda Phage DNA"

Moscow, Molekulyarnaya Biologiya, Vol 4, No 4, Jul/Aug 70. pp 590-597

Abstract: A study was made of the effect of metabolic toxins on the fornation of the helical ring form of DNA (obtained from a lambda phage) under conditions of superinfection. It was determined that chloramphenical $(100\,\mu\text{g/ml})$, as well as actinomycin D and proflavin (in doses up to $5\,\mu\text{g/ml}$), did not have any real effect on the formation of helical molecules of lambda-DNA. However, in much larger doses (up to $10-15\,\mu\text{g/ml}$), both actinomycin D and proflavin almost completely inhibited formation of helical lambda-DNA.

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UNCLASSIFIED PROCESSING DATE--04DEC70

1/2 018 TITLE--STRUCTURE AND PROPERTIES OF STEEL OBKP AFTER PRELIMINARY LOADING

UNDER STRAIN -U-

AUTHOR-(04)-MAKSIMOVICH, G.G., YANCHISHIN, F.P., MOSEYCHUK, V.I.,

BARANETSKIY, V.S.

COUNTRY OF INFO--USSR

SOURCE-FIZ.-KHIM. MEKH. MATER. 1970, 6(1), 19-25

DATE PUBLISHED----70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--ALLOY DESIGNATION, STRAIN, MECHANICAL PROPERTY, ELECTRIC RESISTANCE, RESISTIVITY, RIMMED STEEL, LOW CARBON STEEL/(U) 08KP RIMMED STEEL

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/0401

STEP NO--UR/0369/70/006/001/0019/0025

CIRC ACCESSION NO--APO126156

UNCLASSIFIED

PROCESSING DATE--04DEC70 UNCLASSIFIED 018 2/2 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. A STUDY OF THE EFFECTS OF THE CIRC ACCESSION NO--AP0126156 PRELIMINARY LOADING UNDER STRAIN ON THE STRUCTURE AND PROPERTIES OF STEEL OBKP IS GIVEN. THE EXPTS. HERE CARRIED OUT ON WELL ANNEALED (1 HR AT 930DEGREES IN VACUUM AND FURNACE COOLED) AND POLISHED SPECIMENS; PRELIMINARY LOADING WAS CARRIED OUT IN AIR AT ROOM TEMP. BY APPLYING STRAINS SIGMA SUBP EQUALS 0, 5, 10, 15 AND 25 KG-MM PRIMEZ DURING 100 HR. THE STRUCTURE OF THE PRELIMINARY LOADED SPECIMENS DIFFERS FROM THAT OF THE INITIAL (NONLOADED); FERRITE GRAIN SIZE IS DECREASED; NEW SUBGRAIN BOUNDARIES ARE FORMED. AND THE SLIP BANDS ARE VISIBLE. HARDNESS REMAINS FOR SIGMA SUBP SMALLER THAN 10 KG-MH PRIMEZ PRACTICALLY UNAFFECTED WHILE FOR SIGMA SUBP GREATER THAN 10 KG-MH PRIMEZ IT INCREASES AND FOR SIGMA SUBP EQUALS 25 KG-MM PRIME2 REACHES AN INCREASE OF 35PERCENT. ELEC. RESISTIVITY FOR SMALL SIGNA SUBP (SMALLER THAN 10 KG-MM PRIMEZ) DECREASES AND REACHES A MIN. (SIMILAR TO 3PERCENT), BUT RISES WITH FURTHER INCREASE OF SIGMA SUBP. PRELIMINARY LUADING WITH SIGMA SUBP EQUALS 25 KG-MM PRIMEZ INCREASES ALSO THE TENSILE STRENGTH 27PERCENT AND YIELD STRENGTH 54PERCENT. THE STRUCTURE OF THE PRELIMINARY LOADED SPECIMENS IN THE FRACTURE ZONE IS FINE GRAINED WHILE FOR THE INITIAL (NONLOADED) SPECIMENS THE STRUCTURE IS COARSE GRAINED. FACILITY: FIZ.-MEKH. INST., LVOV, USSR.

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"APPROVED FOR RELEASE: 07/20/2001 CIA-

CIA-RDP86-00513R002202120005-7

1/2 023 UNCLASSIFIED

PROCESSING DATE--27NOV70

TITLE--ENV-100L ELECTRON MICROSCOPE -U-

AUTHOR-(04)-STOYANOV, P.A., MOSEYEY, V.V., ROZORENOVA, K.M., RENSKIY, I.S.

COUNTRY OF INFO--USSR

SOURCE--PRIB. TEKH. EKSP. 1970, 1, 211-16

DATE PUBLISHED----70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--ELECTRON MICROSCOPE, PERMALLOY, OPTIC LENS, MOLYBDENUM OXIDE, INDRGANIC CRYSTAL/(U)EMVIOOL ELECTRON MICROSCOPE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1863

STEP NO--UR/0120/70/001/000/0211/0216

CIRC ACCESSION NO--APOILEDEZT

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PROCESSING DATE--27NOV70

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CIRC ACCESSION NO--APOIL8827

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. A NEW ELECTRON MICRUSCOPE WITH HIGH RESOLN. IS DESCRIBED. ALL IIS LENSES ARE MADE FROM DIFFERENT TYPES HIGH RESOLN. OF THE MICROSCOPE HAS HIGH MECH. STABILITY. OF PERMALLOY. THE COLUMN OF THE MICROSCOPE HAS HIGH MECH. STABILITY. THE THEORETICAL RESOLN. OF 2 ANOSTROM WAS REALIZED IN PRACTICE. THE THE THEORETICAL MAGNIFICATION IN PHOTOGRAPHING IR PARTICLES ON A C ELECTRON OPTICAL MAGNIFICATION IN PHOTOGRAPHS OF THE AU LATTICE, (2001) PLANE, SUBLAYER WAS 440,000 TIMES. PHOTOGRAPHS OF THE AU LATTICE, (2001) PLANE, AND FRESNEL DIFFRACTION BANDS ON THE EDGE OF MOC SUB3 CRYSTALS ARE GIVEN.

UNCLASSIFIED

UNCLASSIFIED

STOYANOV, P. A., MOSEYEV, V. V., ROZOREHOVA, K. M., RENSKIY, I. S.

"EMV-100L Electron Microscope of Limiting Resolution"

Moscow, Izvestiya Akademii Nauk, Seriya Fizicheskaya, Vol 34, No 7, 1970, pp 1388-1395

Abstract: This article is devoted to the electron microscope model EMV-100L and its construction, specifications, and capabilities. It has an accelerating voltage of 100 kV and a resolving power equal to the theoretical limit. Its column consists of the electron gun, two condensor lenses, the objective, and an intermediate and projection lens. intermediate lens in the form of a modification of the objective tube; it is used to obtain electronograms. The column is very stable mechanically. All lenses are made of precision permalloy of various brands and, as a result, the field dispersion in the space between the lenses is substantially reduced and its effect on the miscroscope's adjustment practically eliminated. The article is liberally illustrated with cross-sectional diagrams of the instrument, photographs of its external appearance, and some of the photomicrographs made with it.

CIA-RDP86-00513R002202120005-7" APPROVED FOR RELEASE: 07/20/2001

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UDG 632.95

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DREMOVA, V. P., NAUMOV, YU. A., and MCSEYKINA, N. F.

"Synthesis and Repellent Properties of Dialkylanides and Esters of Benzenesulfonic Acid"

Tp. BNII dezinfektsii i steriliz. (Collection of Norks of All-Union Scientific Research Institute of Disinfection and Sterilization), Vol 2, Vyp 21, 1971, pp 44-45 (from Referativnyy Zhurnal -- Khmiya, Svodnyy Tom, No 19 (II), 1972, Abstract No 19N433 by T. A. Belyayeva)

Translation: In order to study the repellent properties of dialkylanides and esters of benzenesulfonic acid, the compounds with a general formula $C_6H_5O_2NRR'$ (I) (R and R' = alkyl, or RR' = heteroring) and $C_6H_5O_3R''$ (II) (R' = alkyl) were synthesized. Heating of $C_6H_5O_2Cl$ with secondary amines in water-alkaline medium resulted in formation of I compounds. (R, R' or NRR' are given, as well as boiling point in C_7 , or boiling point in C_7 , are given, as well as boiling point in C_7 , and C_7 , are given, as well as boiling point in C_7 , and are given, as well as boiling point in C_7 , are given, as well as boiling point in C_7 , are given, as well as boiling point in C_7 , are given, as well as boiling point in C_7 , and or boiling point in C_7 .

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DREMOVA, V. P., et al., Tp. BNII dezinfektsii i steriliz., Vol 2, Vyp 21, 1971, pp 44-45

n²⁰D): Et, 122-3, 1.5090; Pr. 126-8, 1.5060; iso-Pr. 105-7, 1.5020. The repellent indices of I and II are given with respect to fleas and mosquitoes.

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PROCESSING DATE--27NOV70 UNCLASSIFIED 1/2 021

TITLE--PLASTICIZATION OF POLY(VINYL CHLORIDE) BY SULFOLANE ESTERS AND

ETHERS -U-

AUTHOR-(05)-MOSHCHINSKAYA, N.K., BUDINSKAYA, N.N., BURYAK, I.P.,

BEZMENOVA, T.E., BOROFEYEVA, R.A.

COUNTRY OF INFO--USSR

SOURCE--PLAST. MASSY 1970, 121, 43-4 **强迫,有**看在1200年的

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS-PLASTICIZER, POLYVINYL CHLORIDE, ETHER, HETEROCYCLIC SULFUR COMPOUND, ACETATE, OPTIC PROPERTY, FROST RESISTANCE, ESTER/(U)S2 POLYVINYL CHLORIDE RESIN

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/1703

STEP NO--UR/0191/70/000/002/0043/0044

CIRC ACCESSION NO--APO112697

UNCLASSIFIED

CIRC ACCESSION NO-APOLIZ697
ABSTRACT/EXTRACT--(U) GP-O-WAS PLASTICIZED WITH A NO. OF SULFOLANE ETHERS, E.G.,
WAS PLASTICIZED WITH A NO. OF SULFOLANE ETHERS, E.G.,
3,(NONYLOXY)SULFOLANE (II), 3,(DECVLOXY)SULFOLANE (III), SULFOLANE
ETHERS PREPD. FROM A MIXT. OF C SUB9-1B ALCS., AND AN ESTER, UCTYL
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PROCESSING DATE--300CT70

TITLE--HARDENING OF EPOXY RESINS -U-

AUTHUR-(03)-OGIY, M.S., KARPENKO, L.M., MOSHCHINSKAYA, N.K.

CCUNTRY OF INFO-USSR

SOURCE-USSR 264,667 REFERENCE-OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970, DATE PUBLISHED-O3MAR70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--EPGXY RESIN. CHEMICAL PATENT, CURING AGENT, CHLORINATED ORGANIC COMPOUND. BENZENE DERIVATIVE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME-- 3002/1466

STEP NO--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--AA0128865

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PROCESSING DATE--160CT70

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TITLE--GLYCIDYL ETHERS AND EPOXY RESINS -U-

AUTHOR-(02)-DZHOY, A.S., MOSHCHINSKAVA, N.K.

COUNTRY UF INFO--USSR

SOURCE--U.S.S.R. 264,694
REFERENCE--OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970,
DATE PUBLISHED--O3MAR70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--EPOXY RESIN, CHEMICAL PATENT, ETHER, EPICHLORHYDRIN, BENZENE DERIVATIVE, THERMAL STABILITY, HARDNESS, AROMATIC KETONE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1995/1088

STEP NO--UR/0482/70/000/000/0000/0000

CIRC ACCESSION NO--AAO116554
UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

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PROCESSING DATE--160CT70 UNCLASSIFIED 2/2 017 CIRC ACCESSION NO--AA0116554 GLYCIDYL ETHERS AND EPOXY RESINS ABSTRACT. ABSTRACT/EXTRACT--(U) GP-0-WITH INCREASED THERMAL STABILITY AND HARDNESS ARE PREPD. BY CONDENSING EPICHLOROHYDRIN IN AN ALK. MEDIUM WITH 4, (4, HYDROXYPHENYL (PHENYL) METHYLENE) , 2, 5, CYCLOHEXADIEN, 1, ONE, M, BIS(4, HYDROXYPHENYL(4, 0X8, 2, 5, CYCLOHEXADIEN, 1, YLIDENE), METHYLIBENZENE, P.BIS(4, HYDROXYPHENYL(4,0X0,2,5,CYCLOHEXADIEN, 1, YLIDENE) METHYL) BENZENE, BIS(4, (4, HYDROXYPHENYL[4, QX0, 2,5, CYCLOHEXADIEN, 1, YLIDENE) METHYL) PHENYL) BIS (HYDRDXYPHENYL), METHANE, AND 4,4PRIME, BIS(4, HYDROXYPHENYL(4,0X0,2,5,CYCLOHEXADIEN, DZERZHINSKII, F. E., FACILITY: 1.YLIDENEIMETHYLIBENZOPHENONE. CHEMICAL-TECHNOLOGICAL INSTITUTE, ONEPROPETROVSK. UNCLASSIFIED

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Acc. Nr.:	Ref. Code: 11200	30
Moshchinskaya	N. K.	
MAN WE NOT TOT	perials Based on Aromatic Hydrocarbons and Formaldehyde (Polimery na osnove aromaticheskikh uglevodorodov i formal'degida) Kiev, 0, 255 pp (SL:1862)	
TABLE OF CONT	ENTS:	
Introduction		
Chapter 1	A Brief Review of Investigations in the Field of Arenefor- maldehyde Condensations. Basic Types and Mechanisms of	3
Chapter 1	maidehyde Condensations. Basic Types and Mechanisms of Reactions	3 7
Chapter 1	Reactions Chloromethylation. Arylchloromethypas	3 7 45
Chapter 1 2 3	Reactions Chloromethylation. Arylchloromethanes Arylmethylation of Aromatic Hydrogarbons. Digralmethylation	3 7 45 78
Chapter 1 2 3 4 5	Reactions Chloromethylation. Arylchloromethanes Arylmethylation of Aromatic Hydrocarbons. Diarylmethanes Areneformaldehyde Resins. Polyarylenemethylenes Use of Areneformaldehyde Condensation Products Without Additional Chemical Processing. Reactions of Areneformaldehyde	3 7 45 78 111
Chapter 1 2 3 4 5	Reactions Chloromethylation. Arylchloromethanes Arylmethylation of Aromatic Hydrocarbons. Diarylmethanes Areneformaldehyde Resins. Polyarylenemethylenes Use of Areneformaldehyde Condensation Products Without Additional Chemical Processing. Reactions of Areneformaldehyde Condensation Products	
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Chapter 1 2 3 4 5	Reactions Chloromethylation. Arylchloromethanes Arylmethylation of Aromatic Hydrocarbons. Diarylmethanes Areneformaldehyde Resins. Polyarylenemethylenes Use of Areneformaldehyde Condensation Products Without Additional Chemical Processing. Reactions of Areneformaldehyde Condensation Products	111 134 179
2 3 4 5	Reactions Chloromethylation. Arylchloromethanes Arylmethylation of Aromatic Hydrocarbons. Diarylmethanes Areneformaldehyde Resins. Polyarylenemethylenes Use of Areneformaldehyde Condensation Products Without Additional Chemical Processing. Reactions of Areneformaldehyde Condensation Products Polymers and Polymeric Materials Rased on Areneformaldehyde	111

The analysis of theoretical and practical problems, connected with the production of condensation products of aromatic hydrocarbons with formaldehyde, is based on literature data and author's investigations...

The book was written for engineering-technical personnel and scientists working on problems in production of synthetic polymers and other products of organic synthesis, as well as employees of coke-chemical and petrochemical industries. It can be useful also to students specializing in chemical technology.

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MORSHCHATSKIY, A. A., Candidate of Biological Sciences

"Winter Wheat Root Rot and Combating It"

Moscow, Zashchita Rasteniy, No 7, 1972, p 17

Abstract: In a southern Ukrainian steppe region investigated in 1964-1970, winter wheat root rot (caused by Fusarium, Helminthosporium, and Alternaria) in the latent form was found to be spread over 46% of the area. It reduced the length of the ears and the size and number of grains per ear, causing a deficit of over 2 centners of the crop per hectare. To fight the disease, it is necessary strictly to observe crop rotation rules, plow harvest remnants deep into the ground, eradicate weeds, use resistant wheat strains, (especially Mironovskaya 808 and Bezostaya I) in larger quantities, sow at the right time, use fertilizers in proper proportions, irrigate the fields, and narvest the crop with well adjusted machines so as to prevent trauma to the grains and infection. Chemical disinfection of the seeds promotes growth of healthy shoots and delays the onset of the disease. However, it cannot prevent secondary infection. Therefore, effective prevention must include agrotechnical as well as chemical measures.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

UDC 547.822.5

IVASHCHENKO, Ya. N., MOSHCHITSKIY, S. D., and DANIL'CHENKO, V. P., Institute of Organic Chemistry, Academy of Sciences, Ukrainian SSR

"Derivatives of Tetrachloropicolinic Acid"

Kiev, Ukrainskiy Kimicheskiy Zhurnal, Vol XXXVII, No 5, 1971, pp 474-476

Abstract: A study was made of the reaction of ethyl ester and 3,4,5,6-tetra-chloropicolinyl chloride with hydrazine hydrate. When using tetrachloropicolinic acid ester, 4-hydrazino-3,5,6-trichloropicolinic acid hydrazide is formed. Tetrachloropicolinic acid hydrazide is obtained from tetrachloropicolinyl chloride in hexane at -50 degrees, and bis-(tetrachloropiconoyl) hydrazine, in alcohol. In the absence of phosphorus pentachloride, 2,5-di-(3', 4', 5', 6'-tetrachloropyridyl-2')-1, 3, 4-oxadiazol is synthesized from the latter. The procedures for obtaining 11 derivatives of tetrachloropicolinic acid are presented; and their formulas, yields and melting points are given.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

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UDC 632.954-547.821

IVASHCHENKO, YA. N., MOSHCHITSKIY, S. D., KARABANOV, YU. V., and ZALESSKIY, G. A.

"Study of Herbicidal Activity of 4-Alkylaminotetrachloropyridines"

Kiev, Khimicheskaya Promyshlennost! Ukrainy, No 3, May-Jun 70, pp 23-24

Abstract: The authors studied the herbicidal activity of a new group of pentachloropyridine derivatives, viz. 4-amino-2,3,5,6-tetrachloropyridine and other 4-alkylamino-substituted derivatives in position 4, obtained by the interaction of pentachloropyridine with alkylamines in a medium of dioxane and methyl alcohol at 40-60°C. All the tested compounds were found to have appreciable physiological activity.

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Acc. Nr: AP0049782 CI

Abstracting Service: CHEMICAL ABST. 5-70

Ref. Code: UR0409

sium compounds. Ivasichenko, Ya, N.; Moshchitskii, S. D.; Eliseeva, A. K. (Inst. Org. Khim., Kiev. USSR). Khim. Gelerolisk!. Soedin. 1970, (1), 58-9 (Russ). A soln. of 17-5 g pentachloropyridine (I) in 100 ml mixt. of abs. tetrahydrofuran and Et₂O was added dropwise to MeMgI (from 2.4 g Mg and 14 g MeI) in Et₂O and the mixt. heated 2 hr at 50-80° to give 35% 2,2',3,3',5,5',6,6'-octachloro-4,4'-bipyridine, m. 247-8° (EtOH), and 4-methyl-2,3,5,6-tetrachloropyridine (II, R = Me) (IIa) Ha was also obtained, by gradually heating 2.75 g 2,3,5,6 tetrachloropyridine-4-acetic acid 1 hr at 200°, in 95% yield. Similarly prepd. were II (R, b.p./mm, m.p., and % yield given): Me,

90°/0.02, 89-90° (EtOH + H₂O), 25; Et, 93°/0.02, 67-8° (AcOH + H₂O), 85; Pr, 94-5°/0.02, ---, 62; Bu, 1(0°/0.07, ---, 68; PhCH₂, 165°/0.15, 105-7° (EtOH), 42. To 1.15 g Ha in 30 ml H₂O at 80-90° was gradually added 1.5 g KMnO during 30 hr to give 0.2 g 2,3,5,6-tetrachloroisonicotinic acid, m. 120-2° (H₂O). S. K. Banerjee

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PAVIENKO, A. F., AKKERFAN, V. P., MOSHCHITSKIY, S.,D., and ZEHLYAKOVA, N. G.

"Alkoxylation of 2,3,5,6-Tetrachloro, 2-Trichloromethyl-3,5-dichloro- and 2-Trichloromethyl-3,5,6-trichloropyridyl-4-amidophosphoric Acid Dichlorides with Higher Alcohols"

Alkoksilirovaniye dikhlorangidridov 2,3,5,6-tetrakhlor-,2-triklormetil-3,5-dikhlor- i 2-trikhlormetil-3,5,6-trikhlorpiridil-4-nnidofosfornoy kisloty vysshimi spirtami (Cf. English above), Institute of Organic Chemistry, Academy of Sciences Ukrainina SSR, Kiev, 1972, 4 pp, ill., bibliography with one title, Manuscript No 4383-72 of 5 May 72 deposited at All-Union Institute of Scientific and Technical Information (from RZh-Khiniya, No 20, 25 Oct 72, Abstract No 20N594 Dep from Authors' summary)

Translation: For the purpose of finding new plant growth regulators, 2,3,5,6-tetrachloro-,2-trichloromethyl-3,5-dichloro- and 2-trichloromethyl-3,5,6-trichloropridyl-4-anidophosphoric acid dichlorides were alkoxylated with hexyl, heptyl, octyl, nonyl, decyl and cetyl alcohols. In biological tests the strongest herbicidal properties were exhibited by the dioctyl ester of 2-trichloromethyl-3,5-dichloropyridyl-4-anidophosphoric acid.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

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USSR

UDC 613.644:666.962

KUSHNARENKO, N. I., YEREMEYEVA, A. M., MOSHCHANSKIY, Yib. D., and KOLOMETETS, R. G., Ministry of Health USSR

"Experience in Reducing the Level of General Vibration at the Vibration Tables of a Reinforced Concrete Plant"

Moscow, Gigiyena Truda i Professional nyye Zabolevaniya, No 2, 1970, p 44

Abstract: The vibration tables used in snaping articles made of concrete subject the workers to general vibrations far above permissible levels. The authors succeeded in lowering the levels to the point where vibrations could not be recorded with a VR-1 gauge or folt by the workers. They did this by placing spring-supported, individually fitted concrete or metal slabs under each table.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

PROCESSING DATE--27NOV70 UNCLASSIFIED TITLE--ADDITION OF DIAZOMETHANE TO BETA ETHYNYLPYRIDINES -U-

AUTHOR-(04)-TERENTYEV, P.B., MOSKVINA, T.P., MOSHENTSEVA, L.V., KOST, A.N.

COUNTRY OF INFO--USSR

SOURCE--KHIM. GETEROTSIKL. SOEDIN. 1970, (4), 498-502

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--AZO COMPOUND, METHANE, PYRIDINE, MORPHOLINE, HETEROCYCLIC NITROGEN COMPOUND

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/0932

STEP NO--UR/0409/70/000/004/0498/0502

CIRC ACCESSION MO--APOI34661

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

2/2 008 CIRC ACCESSION NOAPOL34661	UNCLASSIFIED PROCESSING DATE27NOV	V70
ABSTRACT/EXTRACT(U) GP-0- MG AND 32.6 G ETBR) IN 120 HR. SHOWN ON MICROFICHE.	ABSTRACT. TO A SOLN. OF ETMGBR (FROM 4.8 CML TETRAHYDROFURAN (THF) WAS ADDED, DURING FACILITY: MOSK. GOS. UNIV. IM.	; 1
LOMONOSOVA, MOSCOW, USSR.		

UDC 615.37:]576.851.46+576.852.23+576.851.551]:615.451. 13.015.2:615.831.4

IVANOV, V. G., MOSHIASHVILI, I. Ya. and TALANOVA, I. K., Institute of Pediatrics, Academy of Medical Sciences USSR; Central Institute of Health Resorts and Physiotherapy, USSR Ministry of Health; Institute of Vaccines and Sera imeni Mechnikov, Moscow

"The Effect of Prophylactic Ultraviolet Irradiation on Antibody Production in Rabbits Immunized With DPT Vaccine

Moscow, Zhurnal Mikrobiologii, Epidemiologii, i Immunologii, Vol 48, No 6, Jun 71, p 148

Abstract: The effect of the combined application of small doses of ultraviolet (UV) irradiation with DPT vaccine on the production of antibodies to the pertussis, diphtheria, and tetanus antigenic components of the vaccine was studied. Rabbits were divided into three groups. Group one, the control group, received only the vaccine in an intramuscular dose of 0.15-025 mll/kg. in group two the animals were irradiated with UV in increasing doses from 1/4 to 1 3/4 biodoses immediately after vaccination. In group three rabbits were given the vaccine after a course of 7-8 treatments with UV. Antibody

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CIA-RDP86-00513R002202120005-7"

APPROVED FOR RELEASE: 07/20/2001

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IVANOV, V. G., et al, Zhurnal Mikrobiologii, Epidemiologii, i Immunologii, Vol 48, No 6, Jun 71, p 148

titers were determined by the indirect hemagglutination method using ultrasonic erythrocyte diagnosticums (developed by Moshiashvili). It was established that ultraviolet irradiation intensified the rate of antibody formation to the three antigenic components of the vaccine, the highest rate of antibody production occurred in response to the pertussis component of the vaccine, and immunity to pertusis was retained longest in animals vaccinated after a preliminary course of UV treatment.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

USSR

UDC 535.373.2

KAZANSKAYA, N. A., YERMOLAYEV, V. L., MOSHINSKAYA, A. V., PETROV, A. A., and KHERUZE, YU. I.

"Rate Constants of Intramolecular Energy Transfer in Complexes of Rare Earth Ions With Aromatic Acids"

Leningrad, Optika i Spektroskopiya, Vol 28, No 6, Jun 70, pp 1150-1158

Abstract: The triplet-triplet transfer method was used to determine the rate constants for radiationless energy transfer (k_t) from an organic ligand to rare earth ions in complexes of Tb^{3+} , Eu^{3+} , Sm^{3+} , and Dy^{3+} with benzoic acid and its derivatives in methanol at 293° K. The absorption spectra of the rare earth ions in the complexes and the phos-

phorescence spectra of complexes with $\mathrm{Gd}^{3\dagger}$ were measured, and evaluations were made of the integrals for the overlapping of the spectra for the energy donor by those of the acceptor (rare earth ion). It was found that the introduction of electron-donor substituents increases k_t and

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TRIFONOV, YE. D. (Reviewer), Elementarnaya Teoriya Kolebatel'noy Struktury Primesnykh Tsentrov Kristallov, by K. K. Rebane, Moscow, "Nauka" Press, 1968, 232 pp

tween the theory of electron-vibrational transitions and the theory of the Mössbauer effect. A detailed comparison is made of the parameters characterizing the spectra of inorganic and organic phosphor crystals, on the one hand, and the Mössbauer spectrum, on the other. Chapter Four considers deviation from the Condon approximation, allowance for anharmonicity and for variations in elastic constants in electronic transition, the influence of crystal inhomogeneities.

The book contains few errors. However, some additional sections should have been included, such as one on the group-theoretical analysis of luminescence spectra. The book is written with great skill and a clear and detailed style. An English translation is supposed to appear in the near future, published by Plenum Press, New York.

TITLE--SYSTEM 2NACL PLUS ZNSO SUB4 FORMS AND IS FURMED BY NA SUB2 SO SUB4

PROCESSING DATE--13NOV70

PLUS ZHCL SUB2-H SUB2 O AT 75DEGREES -U-

AUTHOR-(02)-MOSHINSKIY, A.S., SHEVCHUK, V.G.

COUNTRY OF INFO--USSR

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SOURCE--ZH. NEORG. KHIM. 1970, 15(4), 1109-12

DATE PUBLISHED ---- 70

SUBJECT AREAS -- CHEMISTRY

TOPIC TAGS--SODIUM CHLORIDE, SUDIUM SULFATE, SOLUBILITY

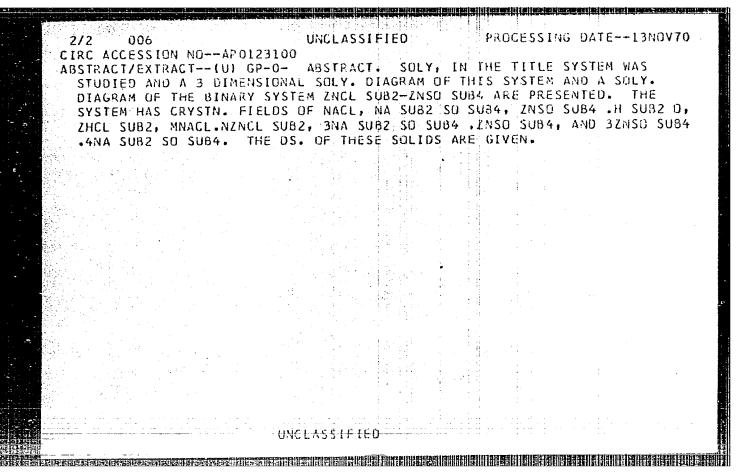
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/1108

STEP NO---UR/0078/70/015/004/1109/1112

GIRG ACCESSION NO--APOL23100

UNCL455[F.160]



Acc. Nr. 19034079 Abstracting Service: Ref. Code
CHEMICAL ABST. 4-70 U.R. 0078

71196c 2NaCl + Zaso. 1800 S. (Kalajira Ajira. 1970, 1811), 219-21 (Rass). Heterogeneous equil was studied in the title system at 25° and a soly, diagram and a 1-dimensional diagram of the system at 25° and a soly, diagram and a 1-dimensional diagram of the system were constructed. The system has 1 fields of crystn. mirability, NagSo. Zaso. 4H-60, Zaso. 2H-60, thenardite, halite, Zacl. 1.5H-60 crystn, field failed filte to rumny salting-out effect of Zacl. on the sullates of the system. Mirabilite has the largest crystn, field.

REEL/FRAME

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

Acc. Nr:

Abstracting Service; INTERNAT. AEROSPACE

48 0141

Influence of an infinite idually conducting A70-23140 # screen with parallel impedance strips on the indiation from a longitudinal electric dipole (Villanie beskontichnogo ideal'no provodiashchego ekrana s parallel'nymi impedansilymi polosimi na izluchenie prodol'nogo elektrichetkogo dipolia) har hoshintki (Minskii Radiotekhnicheskii Institut, Minsk Bidorussian SSR). IZV VWL Radiofizika, vol. 13, no. 1, 1970, p. 115-127. 12 refs. in Rupsian.

Solution of a problem concerning the imission from a longitudinal electric dipole positioned at an arbitrary point near an ideally conducting screen having two parallel stilps with varying surface impedance. The solution is sought in the form of a Fourier integral from a series of Mathieu functions. The unknown expansion terms are determined from an infinite system of linear equations. A numerical analysis of the structure's radiation pattern is given, and pattern control by choosing the impedance and the position of the strips is demonstrated.

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UDC: 550.834

MOSHINSKIY, I. B., IVANOV, L. I., Institute of Geology and Development of Fossil Fuels

"A Method of Processing Wave Information"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 7, Mar 72, Author's Certificate No 329493, Division G, filed 4 Sep 70, published 9 Feb 72, p 183

Translation: This Author's Certificate introduces: 1. A method of processing wave information such as seismic data. The procedure is based on selection of waves by characteristics of directivity. As a distinguishing feature of the patent, the signal-to-noise ratio is increased by sequential nonsimultaneous multiplication or division (depending on the sign of adjacent amplitudes) of waveforms whose amplitudes are previously increased by unity, after which the absolute value of the repeatedly multiplied or divided amplitudes of the waveforms are reduced by unity. 2. A modification of this method distinguished by the fact that the waveforms are multiplied when their amplitudes have the same sign, and this sign is given to the product. 3. A modification of this method in which the waveforms are

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

USSR*

MOSHINSKIY, I. B., IVANOV, L. I., USSR Author's Certificate No 329493

divided when their amplitudes are different in sign, the dividend being the amplitude which is larger in absolute value, and the quotient being given the sign of the dividend.

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USSR

DDC 621.731:3

BULANOV, V. Ya., MIKRAYLICHENKO, A. V., MOSKKAXISEV. G. A., RYSYUKOV, and SEDACH, Yu. A., Orsk-Khalilovov Macallurgical Combine

"Cermet laterials Based on Eron Powders From the Rolling Scale of 1705 and 10KhSND Steels"

Kiev, Pozyshkovaya Metallurgiya, No 7, Jul 70, pp 57-61

Abstract: Iron powders from the rolling scale of 1765 and 10KBSKD naturally alloyed sceeks were produced by combined reduction. These powders were used to produce certain test materials both with additions of carbon, in the for Set graphite, and without it. The principal properties of the same powders are local comparison with the properties of PZNZM from powder of the same grandicative composition produced by the same method. A table in the original arrival enemals the density of the specimens as a function of full compacting pressure. The shrinkage was studied in the process of allocating at 1000 and 1250° 0 are a tried hydrogen atmosphere for 2 hours. The results show that an increase in pur day sition and processe in shrinkage for all speciments regardless of acceptable sition and processes in shrinkage for all speciments regardless of acceptable bending, and show made haddened that the tenuite acrongin of materials acceptable, and the feature acceptable of acceptable and a speciment in the feature of acceptable of acc

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BULANOV, V. Ya., et al. Peresideova, cherdilingipa, No 7, 361 70, pp 57-61

alloyed iron powders is higher than the same properties of nanarials passed on unalloyed iron powders. It was found (by metallography) that alloyed powders with zero graphite content consist of alloyed ferrite which a deschardness higher than that in the ferrite of PZh2M; on increase in the graphite content in the initial mixture raises the amount of paerlite. Additions of graphical above 2% result in cementite.

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UDO 539.287

AKANAYEV, B.A., ZEMSKOV, YE. M., TERESHOHEMKO, V.N., MOSHKAREVA, M.A.

"On Stimulated Combination Scattering In SF6"

Kvantovaya elektronika (Quantum Electronica), Moscow, No 5(11),1972, pp 85-90

Abstract: The preliminary results are presented of experimental studies of the processes of stimulated combination (Reman) scattering in liquid SF6 at room temperature and a saturating vapor pressure of 23 kg/cm2. It is noted that SF6 was selected as an object of study because this substance has a number of properties which are advantageous during experimentation: increased chemical stability and inertia, high elastic strength, optical transparency and sufficient uniformity in the visible and infrared regions of the spectrum. A ruby laser with a modulated figure of merit and one stage of amplification was used as a pumping source. The system made it possible to obtain a rediation pulse of 50 namesec duration, with an energy up to 4,5 joule, a wide spectrum to 0.02Å, and a divergence with respect to a level of half the energy equal to 4.10-3 rad. The excitation threshold of the first and accord Stokes commonents were found to be 18 and 50 km/cm2, respectively. Ourves are presented which show the conversion

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

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AKANAYEV, B. A., et al., Kvantovaya elektronika, No 5(11), 1972, pp 68-90

of pumping radiation into the Stokes components of stimulated combination scattering. The author thanks A.Z.Grasyuk for critical chaervations and attention to the work.2 fig. 3 ref. Received by editors, 15 Pob 1972; after revision, 6 July 1972.

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<u>. 89 -</u>

UDC 621.382.81

MOShKAROV, B. S. and OCHKOV, A. S.

"An Information Measurement System"

Elektron. Tekhnike, Nauch.-Tekhn. Sb. Mikroelektronika (Electronic Technology. Scientific-Technical Collection. Microelectronics), 1972 Edition 2(36) pp 117-120 (from RZh-Avtomatika Telemechanika i Vychislitel naya Tekhnika, No 3, Mar 73, Abstract No 3 A297 by the authors)

Translation: This work considers the requirements for information measurement systems and the basic problems which must be solved in their design. There is a discussion of the application of magnetic control contacts as commutating devices, and a relationship is given between measurement error and the time of establishment of a transient process in the input circuit of the apparatus. There is data on an information measurement system which has been developed and accepted for production. One table, two bibliographic entries.

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- 12 -

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MOSHKEVICH					: .:
JPR6 55822 27 April 1972	UDC 620.18:669.784'27 OF EUTECTIC IN Pe-4-C-ALLOYS I Vanoy, i., D. Moshkevich, UkrNIInperstal' I Mistitute of Spotial Sfeal); Moscow, R Obraicatka Metalloy, Russian, No 1, 1972, the type RIS balong to the ledeburite class.	id deformed stock [1]. The properties of cast structural characterists of the entectic structural characteristics of cast interesting deterior for following rated; when morphologic features of the enteric are onnexision in fast-cutting stock is described to the following roaction: Inquid (1) the conversion in fast-cutting stock is described to the following roaction: Inquid (1) the following roaction: Inquid (1) the following conversion and morphology, formed in type Khlz steels (3):	summarised the results of a study of the exection in fast-curting steels (Figure 1). The three L - A - (H, Fe) L is the concluding stage of the extectic colonies, and frequently their cured by previously formed austenite. High-shamical compositions of which are presented in discussions.	in magnesite crucibles on the basis of master ctrode graphite and metallic tungsten. The were hardened in the crucibles at a cooling ted to hardening-microstructural analysis by The specimens were analyzed by stereometric	[I - Wosn - I]
		and many properties of carr and deformed stool [1]. The properties of cast rool steel depond on the amount, distribution and structure of the cutecties component. The corresponding structural characteristics of castings determine the carbide heterogeneity of rolled steel, correspondings determine the carbide heterogeneity of rolled steel, the flowever in the literature pertaining to fast-cutting steels the net discussed. In [2] entectic conversion in fast-cutting steel is described as the formation of ledeburite by the following roaction; liquid [1] — austrantie (A) * carbide (C). According to phase composition and morphologic hosts these nutsquid (1) — austrantie (A) * carbide (C). According to phase composition and morphologic for these nutsquites aliffer growthy in what causes from londwinter, such 125. for londwint these such action A (CT, Fe), Gormod in type NN12 steels [3].	In this article are summarised the results of a study of steels cursetablishing in fast-cutting sreeds (Figure 1). Steels currectic conversion L + A + (H, Fo) C is the concluding statement, and the form of the cuteric colonies, and frequently internal structures are obscured by previously formed austenite, the table, were investigated.	The alloys were maited in magnesite crucibles on the basis estims and of armostron, electrode graphice and metallic tungs of setims (each weighing 200 g) were hardened in the crucibles at rate of 100 dag/min or subjected to hardening-microstructural armost wethood described in [3]. The specimens were analyzed by stemmetallography methods.	. 1 .

UDC 669.14.018292:549.12

USSR

LITVINOVA, T. I., RAYCHENKO, T. F., PIROZHKOVA, V. P., and MOSHKEVICH. L. D. "Petrographic Investigation of Rough Globular Elements in ShKhl5 Steel"

Moscow, Stal', No 2, Feb 71, pp 166-168

Abstract: The coarse, globular nonmetallic elements found in ShKhl5 steel and determined by X-ray analysis to be largely of magnesian spinels, markedly debase the quality of the steel and adversely affect its characteristics, often leading to the discard of individual alloys. This article describes the method used by the authors to determine the phase state of these elements by the petrographic method, in which sections of the steel were examined under the microscope after metallographic study. The elements are from 100 to 150 microns in size, and were discovered in the ShKhl5SG alloy as well as in the ShKh15, both manufactured by the "Imeprospetsstal" plant. They can be classified in three groups, differing in shape, reflective capability, and behavior under polarized light. Most of them had the chemical composition of 2CaO·SiO,. The petrographic examination, yielding results which agreed closely with the X-ray study, showed that the elements correspond in phase and structure to slag, from which they probably originate. 1/1

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1/2 028

UNCLASSIFIED PROCESSING DATE--04DEC70

TITLE--MEANS OF LOWERING THE TOXIC PROPERTIES OF UREA -U-

AUTHOR-(03)-MAKSAKOV, V.YA., MOSHKEVICH, V.B., MOSOLOVA, E.S.

COUNTRY OF INFO--USSR

SOURCE-VETERINARIYA (MOSCOW) 1970, 46(4), 79-80

DATE PUBLISHED ---- 70

SUBJECT AREAS -- AGRICULTURE, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-ANIMAL HUSBANDRY, UREA, DIET, TOXICITY, PROTECTIVE COATING

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/1908

STEP NO--UR/0346/10/046/001/0079/0080

GIRG ACCESSION NO--APO127309

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

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2/2 028 UNCLASSIFIED PROCESSING DATE--04DEC70 CIRC ACCESSION NO--APO127309 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. TO REDUCE THE TOXIC EFFECT OF UREA AS A N SOURCE FOR RUMINANTS, 2 MEHTOS OF FEEDING UREA, USING COATING WITH SHELLAC, WERE WORKED OUT. (A) ONE KG OF UREA GRANULES OF 1-2.5 MM DIAH. IS MIXED WITH 160 ML OF 20PERCENT SHELLAC IN ETOH ACETONE (7:3) AND DRIED IN AIR. (B) THE COMBINED DIET CONTG. UREA IS PELLETED AND IN EXPTS. CARRIED DUT IN BULLS WITH A RUMEN FISTUAL, COATED AS IN (A). FEEDING (A) OR (B) CONTG. 100 G UREA SLOWED THE RELEASE OF NH SUB3 BY 32 AND 23PERCENT, RESP., COMPARED WITH THE CONTROLS FED WITH UNCOATED DIETS. WHEN 100 G OF UNCOATED UREA WAS GIVEN, TOXIC SIGNS (SALIVATION, ATONY OF THE RUMEN, AND MUSCLE TWITCHING) APPEARED WITHIN 2 HR, WITH NH SUB3 CONCNS. IN PLASMA AND RUMEN 188 GAMMA PERCENT 61.6 MGPERCENT, RESP. NO TOXID SIGNS AND LOWER NH SUB3 LEVELS WERE SEEN IN ANIMALS FED COATED UREA (158 GAMMA PERCENT AND 48.7 MG PERCENT, RESP.). IN CHRONIC FEEDING EXPTS. WITH THE COATED DIETS (A) AND (B) FOR SIMILAR TO 100 DAYS, THERE WERE INCREASES IN THE PLASMA TOTAL PROTEIN BY 0.79PERCENT, IN N RETENTION BY 9-IOPERCENT, AND IN MEAN DAILY WT. GAINS BY 9. 6PERCENT. AS COMPARED WITH THE CONTROLS. FACILITY: NAUCH.-ISSLED. INST. ZHIVOTNOVOD. LESOSTEPI POLES YA, KHARKOV, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

Acc. Nr: AP0051951

Ref. Code: URB 297

PRIMARY SOURCE: Antibiotiki, 1970, Vol 15, Nr 4, pp 367-359

EXPERIENCE WITH LOCAL USE OF GLYCOCYCLINE IN CERTAIN LOR DISEASES

N. V. Gaspodinova, A. I. Kuzmina, V. S. Moshkevich, N. N. Popova, S. I. Eydelshteyn

F. E. Dzerzhinsky's Polyclinic, Moscow

Acquous solutions of glycocycline at a concentration of 500 to 20.000 Units/ml and powders were used locally as ear drops, solutions for washing the sinus cavities and aerosol inhalations in the treatment of 144 for cases with microflora sensitive to tetracycline. 110 patients suffering from exacerbated chronic pharyngo-laryngitis, sinusitis, chronic otitis and tonsilitis showed satisfactory results. The antibiptic applications were satisfactory tolerated by the patients. No severe side effects were observed.

REEL/FRAME 19820438 pc2

WC 669.187.26

ZABALUYEV, YU. I., MCSHKEVICH, YE. I., BURYAKOVSKIY, G. A., BRODSKIY, G. M., and MIKULIN, A. A., Dneprospetsstal Plant and All-Union Scientific Research Institute of Electric Welding Equipment

"Improving the Quality of Electroslag Remelted Steel by the Action of a Magnetic Field"

Moscow, Stal', No 8, Aug 73, pp 710-711

Abstract: The effectiveness of electroslag remelting of large ingots is lowered due to the development of segregation phenomena (formation of "barbs" in the macrostructure, etc.). Reducing the remelting rate eliminates this defect but causes deterioration of surface quality and, therefore, is permissible only in narrow limits. Electromagnetic action with the aid of a solenoid makes it possible to eliminate segregation defects and to produce metal of satisfactory quality even with a slight increase in the remelting rate. Comparative data on the quality of stoels ShKh15SCSh and ShKh15Sh are presented in which remelting was done in the same modes in a crystallizer measuring 415 x 415 mm with and without the solenoid. M. M. KUZMETSOV, M. A. STETSENKO, L. P., BULYSHENSKAYA, and S. S. KAZAKOV participated in this work. Two bibliographic references. 1/1

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

Steels

USSR

UDC 621.643.411.4.62-192

MOISEYEV, A. A., Candidate of Technical Sciences, SUKHAREVA, V. D., Engineer, ZEMZIN, V. N., Doctor of Technical Sciences, HITRIK, A. I., Candidate of Technical Sciences, MOSHKEVICH, Ye. I., Candidate of Technical Sciences, KOROBOCHKIN, I. Yu., Candidate of Technical Sciences, KIRVALIDZE, N. M., Candidate of Technical Sciences, PISHCHIKOV, G. P., Candidate of Technical Sciences, DEVYATKO, E. I., Engineer, All-Union "Order of the Red Banner of Labor" Scientific Research Institute of Heat Engineering imeni F. E. Dzerzhinskiy, Central Scientific Research Design and Planning Boiler and Turbine Institute imeni I. I. Polzunov, Road Construction Division, Southern Pipe Plant, All-Union Scientific Research Diesel Locomotive Institute

"Improving the Operational Reliability of Welded Joints and the Technological Properties of High-Strength EP184 Austenitic Steel"

Moscow, Teploenergetika, No 8, Aug 72, pp 46-49

Abstract: The article is a report on the results of joint research by various scientific research institutes and industrial organizations to determine what effect methods of melting EP184 steel might have on the work-

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USSR

MOISEYEV, A. A. et al., Teploenergetika, No 8, Aug 72, pp 46-49

ing reliability of welded joints as well as on the other properties of the metal. It was found that crack formation in joints can be eliminated by reducing the oxygen content, as well as the concentrations of hydrogen, nitrogen, sulfur and phosphorus below certain levels. This can be done by melting from a fresh charge with subsequent vacuum-arc remelting. Electroslag remelting can be used as well, but is less effective.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

USSR

UDC 615.281.875:615.385.3.011.17

PIGAREVSKIY, V. YE., SOROKIN, A. V., YEFFEMOV, O. M., MOSHKIN, S. A., and TOLYBEKOV, A. S., Institute of Experimental Medicine, Academy of Medical Sciences USSR, Leningrad

"Antiinfluenza Antitoxic Activity of Leucocytic Pyrogen"

Moscow, Voprosy Virusologii, No 4, Jul/Aug 72, pp 439-444

Abstract: The prophylactic effect of pyrogen obtained from rabbit leucocytes in peritoneal exudate was studied by injecting pyrogen intravenously into rabbits subsequently infected with AO/32 influenza virus. When injected 24 hours prior to viral infection, pyrogen prevented death and the tissue and vascular destruction typical of influenza intoxication. (The pyrogen also altered the body temperature pattern in response to influenza virus infection, causing disappearance of an early hypothermic phase, and development of a rapid temperature reaction.) A similar reaction was observed with injection of Newcastle disease virus prior to infection. This virus induced formation of interferon and pyrogens in rabbits. Though the mechanisms by which pyrogen increases resistance to virus in toxication are unknown and require further study, there is now an obvious connection between leucocyte products, including pyrogen, released during intoxication or infection and the increase in body resistance to virus toxin. The possibility of employing leucocytic pyrogen as a prophylactic or therapeutic agent against influenza must be studied.

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CIA-RDP86-00513R002202120005-7

Acc. Nr.: AF0046778

Ref. Code: UR0125

USSR

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UDC 621.791.03.96

SKACHKO, YU. N., MOSHKIN, V. F., GARKALYUK, R. I., POPOV, N. V., MEDVEDEV, A. N., SKORUPSKIY, B. P., KORSHUNOV, V. A.

"High-Frequency Welding of Spiral-Seam Pipe with Butt Seam Joining"

Kiev, Avtomaticheskaya Svarka (Automatic Welding), No 1, 1970, pp 63-65 (from Avtomaticheskaya Svarka, No 1, 1970, p 80)

Translation: This article contains a study of the characteristic features of strip formation and upsetting during high-frequency welding of spiral-seam pipe with butt seam joining. New forming schemes and new designs of the mechanical units of tube welding mills are processed. The peculiarities of welding pipe are investigated in the case of disturbance of the geometry of the initial tape. There are 4 illustrations and a 6-entry bibliography.

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Reel/Frame

coumacasanso, v. S.; Sparnoy, M. N.; Zojikoy, M. M. (Institute of Ceneral and Inorganic Chemistry, academy of Sciences, Ukrainian S.R.) Brit. 1,177,133 (Cl. C. 01), 07 Jan 1970, Appl. 10 Feb 1967; 3 pp. A process for prepg. Al₂O₄ is described in which nephelite rock is leached in an autoclave with an aq. NaOH soln. (500 g Na₂O/l.) in the presence of CaO. The temp. is 280–300°, the time is 10 min, and the CaD: SiO₂ mole ratio is 1.05:1. The mixt. is filtered, the solids are washed, and the filtrate and washings are evapd. yielding an aluminate soln. contg. 500–20 g Na₂O/l. The soln. is cooled to 40–5° to crystallize aluminates which are then sepd. from the mother liquor. A portion of the mother liquor (contg. 120–30 g Na₂O/l.) is recycled to the autoclave; the remainder is fortified with NaOH and used

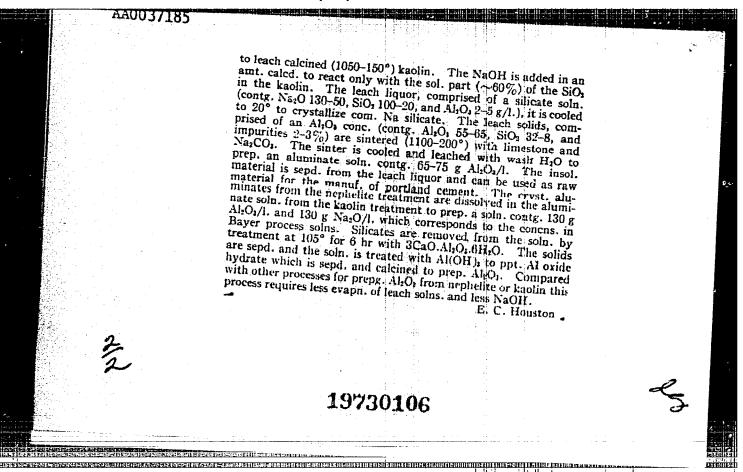
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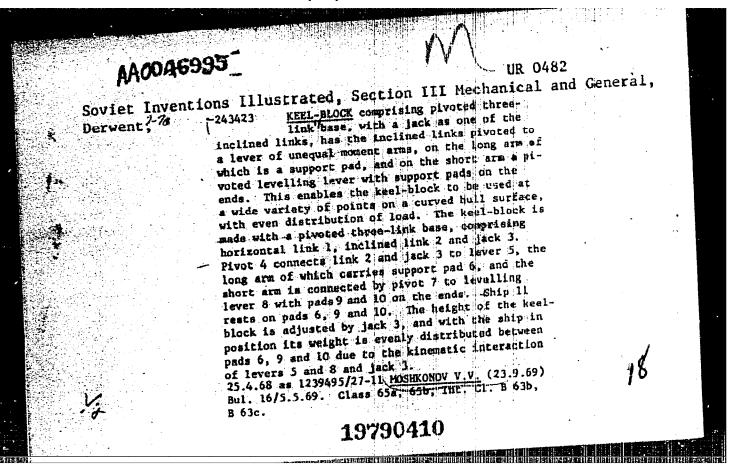
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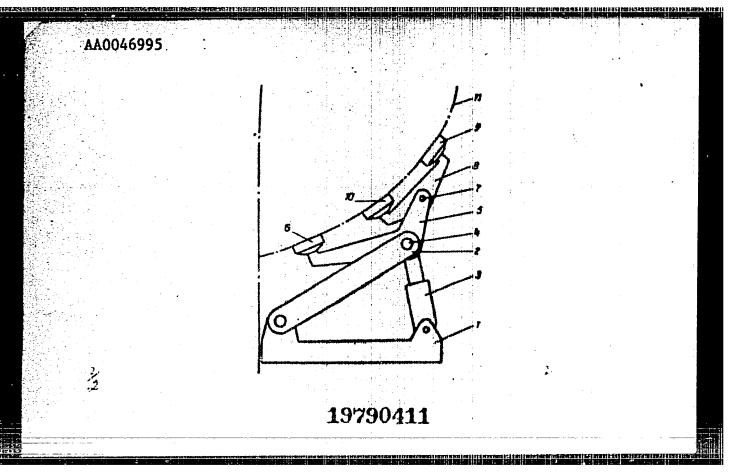
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Acc. AA 0037185 Abstracting Service: Ref. Code: UK Ocoo

57299v Alumina from nephelite rock and kaolin. Sementenko, N. P.; Sazhin, V. S.; Shor, O. I.; Masilian M. K.; Chumachenko, V. S.; Shurnov, M. N.; Zorikov, M. M. (In-







UDG 530.13

MOSHKOV, A. D., and PECHNIKOV, A. V., Tashkent Institute of Railroad Transportation Engineers

"Use of the Continued Fraction Method for the Study of Torsional Oscillations of Multimass Systems on a Digital Computer"

Tashkent, Izvestiya Akademii Nauk Uzbekskoy SSR, Seriya Tekhnicheskikh Nauk, No 2, 1970, pp 68-71

Abstract: The article describes a program for calculating continued fractions on a medium-class digital computer (for example, the "Ural-2") for the study of free and forced torsional oscillations of a multimass system. The use of a computer speeds up the study and makes it possible to analyze different versions for the construction of mechanical, electrical and other chain-structure systems.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

UDC 621,735,032

VORONTSOV, V. K., MOSHKOV, V. I., PETROV, V. A., and CHEKHOVA, L. I.

"On the Effect of the Forging Reduction Ratio on the Macro and Micro-Structure of Heat-Resistant E1481 Steel"

Plasticheskaya Deformatsiya Metallov i Splavov, Moscow, No 64, "Metallurgiya," 1970, pp 205-208

Translation: A study is made of the macro- and micro-structure of E1481 steel in all reductions of an ingot 500 millimeters in diameter and 1.17 tons in mass. It is established that during forging on flat hammer blocks to the point where the forging reduction ratio is nine, inadequate working of the central part of the ingot can be observed. The micro-structure is studied in the central and peripheral parts of the ingot. It is shown that the micro-structure of steel in forged pieces obtained with a forging reduction ratio less than nine is characterized by a microconsertal nature. The macro- and micro-structure of forged pieces forged in cut hammer blocks is studied, and the advantage of such technology from the point of view of cemented carbides and consertal nature is demonstrated. Four figures and two bibliographic entries.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

UDC 620.171.5

POLUKHIN, P. I., VORONTSOV, V. K., MOSHKOV, V. I., and PETROV, V. A.

"Stress-Deformation State of a Round Billet During Drawing by Flat, Combined, and Cut Hammer Blocks"

Plasticheskaya Deformatsiya Metallov i Splavov, Moscow, No 64, "Metallurgiya,"

Translation: Using the optically sensitive coding method, a comparison was made of the stress-deformed state of round billets during drawing by flat, combined, and cut hammer blocks. It is shown that the use of combined and cut hammer blocks in forging round ingots is more expedient. The article gives practical recommendations on the selection of cut hammer blocks. Six figures and five bibliographic entries.

1/1

Cardiovascular Diseases

USSR

UDC 616.1-084:613.71

MOSHKOV, Prof. V. N. Sciences USSR, Moscow New Corresponding Member Academy of Medical

"Physical Culture as a Means of Preventing the Most Important Diseases of the Cardiovascular System"

Moscow, Sovetskaya Meditsina, Vol 34, No 2, Feb 71, pp 94-100

Abstract: Data reported in the literature show that lack of exercise shortens life and results in functional disturbances, principally those of the blood circulation system. It has been found that even a few hours of rest impair regulatory functions of the organism. Physiological studies have shown that physical training increases the resistance of animals to hypoxemia and to the action of extremes of temperature, penetrating radiation, and acceleration loads as well as other external effects that greatly stress the organism. It intensifies the immunobiological response of the organism and thus increases the resistance to disease -- e.g., the resistance of animals to tuberculosis is increased. Physical training and exercise are of definite

MOSHKOV, V. N., Sovetskaya Meditsina, Vol 34, No 2, Feb 71, pp 94-100

importance in the prophylaxis of hypertension, atherosclerosis, and coronary insufficiency. Their beneficial effects include improved regulation of vegetative functions, increased efficiency of the circulatory system, activation of the metabolism of the myocardium, a better balance between blood coagulation and anticoagulation mechanisms, and stimulation of the development of collateral blood circulation.

2/2

- 3/1 -

UDC 669.3:669.017.3

ZAKHAROVA, M. I., KAO-MIN'-T'I, and MOSHKOV, V. V., Moscow State University

"Phase Transformations in Decomposition of Solid Solutions in Cu-18Be-18Ag and Cu-0.5%Be-1.3%Ti Alloys"

Sverdlovsk, Fizike Metallov i Metallovedeniye, Vol 33, No 6, Jun 72, pp 1243-

Abstract: Electron microscopy and X-ray analysis of polycrystals and single crystals were used to investigate phase transformations in the decomposition of solid solutions in Cu-1%Be-1%Ag and Cu-0.5%Be-1.3%Ti (wt.%) alloys. In the Cu-Be-Ti alloy the decomposition of the supersaturated solid solution in the process of isothermal tempering at 218 and 300°C proceeds first by separation of the B'-Cu3Ti and C'-CuBe metastable coherent phases and then by separation of the P-Cu3Ti and -CuBe equilibrium phases. Crystals of metastable phases separate with orientations in the direction <100>, forming a periodical structure. The decomposition of the solid solution in the Cu-Be-Ag alloy at 28 and 300°C proceeds first by separation of the do-CuBe metastable phase and then by separation of the CuBe equilibrium d-phase and Ag crystals containing a small quantity of dissolved Cu. Taree figures, twelve bibliographic references. CSO: 1842-W - END _

- 65 -

UDC 541.182.2/.3:546.45

VISHNEVSKIY, Ye. P., and MOSHKOVA, L. P.

"Nomographic Method of Estimating the Intensity of Aerosol Emanations When Beryllium is Heated"

Moscow, Gigiyena i Sanitariya, No 7, 1973, pp 84-87

Abstract: When heated, beryllium evaporates and then condenses upon coming into contact with the surrounding cold air. Using formulas that take into account the temperature, thickness of the oxide film, and pressure of saturated vapor, the authors prepared a nomogram that permits quick determination of the intensity of aerosol emanations at the various temperature levels to which beryllium may be heated. The procedure is illustrated with two examples.

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- 81 -

1/2 022 TITLE--CUTTING OFF THYRISTOR DIRECT CURRENT TRANSFORMERS DURING INDUCTIVE PROCESSING DATE--- 300CT70 AUTHOR-(02)-BARSKIY, V.A., MOSHKOVICH, B.I.

COUNTRY OF INFO-USSR

SCURCE-MUSCOW, ELEKTROTEKHNIKA, 1970, NR 2 PP 11-14

DATE PUBLISHED-70

SUBJECT AREAS-ELECTRONICS AND ELECTRICAL ENGR.

TOPIC TAGS-THYRISTOR, ELECTRONIC TRANSFORMER, DIRECT CURRENT, ELECTRONIC SWITCH, ELECTRONIC RECTIFIER, VOLT AMPERE CHARACTERISTIC

CCHTRCL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/1224

STEP NO-UR/0292/70/000/002/0011/0014

CIRC ACCESSION NO-APO123188

UNCLASSIFIED

CIRC ACCESSION NO-APO123188 UNCLASSIFIED PROCESSING DATE--300CT70 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. RESULTS ARE PRESENTED FROM A THEORETICAL AND EXPERIMENTAL STUDY OF A REGIME WHICH IS FREQUENTLY MANIFESTED DURING THE PROCESS OF TRANSFORMER EXPLOITATION. THAT OVERVOLTAGE AT SHUT OFF RECTIFIERS AND INDUCTIVE LOAD, WHICH ARE MANIFESTED DURING TRANSFORMER CUT OFF FROM THE SUPPLY NETWORK, ARE DETERMINED BY THE VOLTAGE DROP IN THE ARCS OF SWITCHING OFF APPARATUS. AN ANALYSIS IS GIVEN FROM THE EXPERIMENTAL STUDY OF THE VOLT AMPERE CHARACTERISTICS OF THE ARC OF A SWITCH AND THE RESULTING OVERVOLTAGE. SCHEMES FOR PROTECTION FROM OVERVOLTAGE ARE GIVEN FOR NONREVERSIBLE AND REVERSIBLE TRIPHASE AND NULL PHASE CIRCUITS FOR THE REGIME UNDER INVESTIGATION. AN ANALYSIS IS MADE OF THE PROCESSES WHICH TAKE PLACE IN THYRISTORS DURING INDUCTIVE LOAD SWITCH OFF OVERHEATING OF THE STRUCTURE OF THE TERMINAL CONDUCTING THYRISTORS, AND THE MAXIMUM RATE OF CURRENT RISE IN SHUNTING THYRISTORS. URIGINAL ARTICLE: FOUR ILLUSTRATIONS AND SEVEN BIBLIOGRAPHIC ENTRIES.

UNCLASSIFIED

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USSR

UDC: 621.372.412

HOSHKOVSKIY, A. S.

"Investigation of Losses in the Surface Layer of Ground Quartz Piezoelec-

Elektron. tekhnika. Nauch.-tekhn. sb. Radiokomtonenty (Electronic Technology. Scientific and Technical Collection. Radio Components), 1970, vyp. 5, ap 42-50 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6D354)

Translation: The paper presents the results of studies of losses in an oscillatory piezoelectric element in the destroyed surface layer of quartz which is formed during grinding. It is shown that an additional source of losses in a ground piezoelectric element is due to crystal lattice defects in the quartz layers with the first and second kinds of destruction, which may be eliminated by etching in hydrofluoric acid. The equivalent parameters, temperatur-frequency characteristic and aging of resonators with ground piezoelectric elements after long-term etching are no different then the corresponding factors for resonators with polished piezoelectric elements. Resumé.

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UDC 616.993.162-022.39-084.47-036.8

SERGIYEV, P. G., BEYSLEKHEM, R. I., MOSHKOVSKIY, Sh. D., DEMINA, N. A., KELLINA, O. I., SHUYKINA, E. Ye., SERGIYEV, V. P., IUKHANINA, N. N., TRIYERS, I. I., SHCHERBAKOV, V. A., YARMUKHAMEDOV, M. A., USKOV, N. Ye., LOSIKOV, I. N., and NEDOSPELOVA, Ye. I., Institute of Medical Parasitology and Tropical Medicine imeni Ye I. Martsinovskiy, Ministry of Health USSR, Moscow

"Results of Mass Vaccinations against Zoonotic Cutaneous Leishmaniasis"

Moscow, Meditsinskaya Parazitologiya i Parazitarnyye Bolezni, Vol 39, No 5, Sep/Oct 70, pp 541-551

Abstract: Preventive mass vaccinations with a virulent strain of Leishmania tropica major were found to give reliable protection against cutaneous leishmaniasis. Only virulent strains can be used for vaccination. The degree of inoculation with such strains is almost 100%, the inoculative process having, as a rule, a favorable effect. The maximum size of the vaccination lesion does not exceed 2 cm in diameter in 3/4 of the subjects vaccinated. In practically all cases, the process does not last more than 5-6 months. Morbidity occurred in the group vaccinated with the low-virulence strain, smong those without lesions, and among those whose lesions were less than 0.5 cm in diameter.

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USSR

SERGIYEV, P. G., et al., Meditsinskaya Parazitologiya i Parazitarnyye Bulezni, Vol 39, No 5, Sep/Oct 70, pp 541-551

Secondary pyococcal infections represented the only complications observed; allergic exanthem was noted occassionally. In order to prevent local and general allergic reactions after vaccination, it is necessary to exclude persons who have had cutaneous leishmaniasis. If past disease cunnot be revealed by means of anamnesis or medical examination, the intradutaneous leishmanin test is recommended. The level of the virulence in inoculative strains should be periodically tested, since insignificant initial virulence or its weakening during culturing make a given strain unfit for preparation of inoculum.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

UDC 669.15'26'28-194:620.186

VINITSKIY, A. G., YANENSKIY, N. YE., MOSHNYAGUL, V. Y., KOGAN, G. M., SHCHEGLYUK, P. S., and POKRYSHKINA, V. A., Kirovograd Institute for Agricultural Machine Building

"Influence of Structure on the Wear Resistance of Stamps Made of Khl2M Steel"

Moscow, Metallovedeniye i Termichaskaya Obrabotka Metallov, No 2, 1971, pp 74

Abstract: The influence of the structure of Kh12M steel on the wear resistance was studied as applicable to conditions of operation of dies and matrices of stamps for cutting and punching of transformer steel. It was found that Kh12M steel with austenitic structure has higher wear resistance under dry friction conditions with dynamic loading than hardened martensitic steel. Hardening from 1180-1200°C in oil and tempering at 180-220°C for 1.5-2 hr represent the optimal heat treatment mode for Kh12M steel.

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UDC 619.7:612.8

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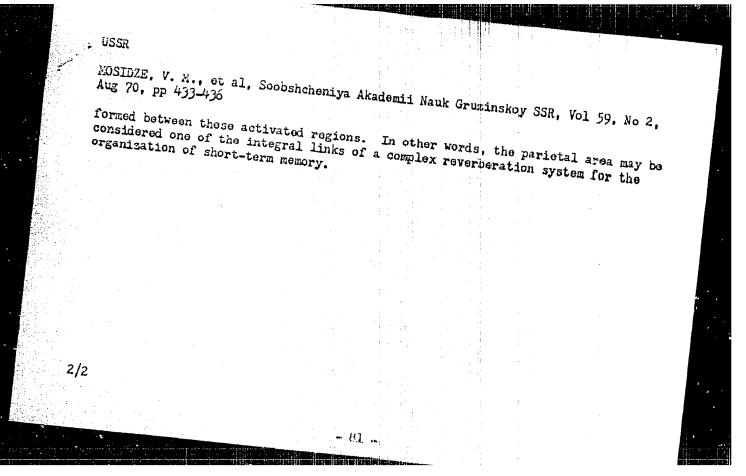
USSR

M., and GUGUSHVILI, M. L., Institute of Physiology, Academy of Sciences HOSIDZE. Georgian SSR

"Effect of Extirpation of the Parietal Association Areas of the Cortex of the large Hemispheres on Short-Term Memory in Dogs"

Tbilisi, Scobshcheniya Akademii Nauk Gruzinskoy SSR, Vol 59, No 2, Aug 70, pp 433-436

Abstract: The effect of the posterior association or parietal regions of the cortex on short-term memory was studied. Results obtained in such studies in the past have been contradictory. Three dogs were presented with both visual and auditory stimuli (associated with food), and the maximum delay period after which the dogs would still react to the stimuli was determined. The anterior lateral and middle suprasylvian gyri (field ?) of the dogs' brains were then removed, and the experiments were resumed 10 to 14 days after the operation. A considerable reduction of tra delay time was noted in all three dogs, and several weeks of training were required to achieve the previous performance levels. It was suggested that, for each visual or auditory stimulus perceived, the parietal regions as well as the appropriate projection zones are activated. According to the reverberation theory of the origin of short-term memory, closed neural cycles are 1/2



PROCESSING DATE--160CT70

TITLE-THE ROLE OF THE CALLOSAL BODY IN TRANSMISSION OF AUDITORY INFORMATION FROM ONE HEMISPHERE TO THE OTHER -U-AUTHOR-(02)-MOSIDZE, V.M., KEVANISHVILI, Z.SH.

COUNTRY OF INFO--USSR

SOURCE--ZHURNAL VYSSHEY NERVNOY DEYATEL NOSTI, 1970, VOL 20, NR 3, PP DATE PUBLISHED-----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--BRAIN, SURGERY, ACOUSTIC DETECTION, AUDIOLOGY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0060

STEP NO--UR/0247/70/020/003/0619/0625

GIRC ACCESSION NO--APO120760

UNCLASSIFIED

YERMAKOVA, YE. G., KRASNOVA, T. L., MALYKHINA, N. N., MOSIN, A. M., ONOPRIYENKO, M. I., CHERNYSHEV, YE. A., and SHPAK, M. T., Institute of Phys-

"Electron-Vibrational Absorption Spectra in the Near UV of Phenylsilane and Methylphenylsilanes"

Kiev, Ukrainskiy Fizicheskiy Zhurnal, Vol 17, No 5, Pay 72, pp 811-817

Abstract: The article describes results of a study of electronic vapor and crystal absorption spectra for phenylsilane C6H5SiH3 and methylphenylsilanes C6H5SiH2CH3, C6H5SiH(CH3)2, C6H5Si(CH3)3, as well as a comparison of the effect of the silicon atom on the aromatic ring with the effect of carbon in hydrocarbon molecules similar in structure. It was found that replacement of the carbon atom by silicon in the molecules investigated results in a 300-360 cm-1 increase in the spectrum shift to the long-wavelength region and intensification of the transition considered. This indicates great distortion of the hexagonal symmetry of the pi cloud of the phenyl ring in organosilicon

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CIRC ACCESSION NO--AP0120760 UNCLASSIFIED PROCESSING DATE--160CT70

ABSTRACT/EXTRACT—(U) GP-0— ABSTRACT. IT HAS BEEN SHOWN IN CHRONICOST PARTINENTS ON INTACT DOGS THAT IN THE COURSTIC DIFFERENCE OF THAT IN THE COURSTIC DIFFERENCE OF THE CONTROL TIONS ARE FORMED AND SAPPROVED TORS ONLY IN THE CONTRALATERAL BUT IN THE IPSILATERAL HEMISPHERE AS WELL— CALLOSOTOMY RESULTS IN A DISTURBANCE OF THE CALLOSOTOMY RESULTS IN A DISTURBANCE OF THE TRANSFER OF FINE ACOUSTIC DIFFERENTIATION TO THE HEMISPHERE IPSILATERAL TO THE STIMULATED EAR. TRANSMISSION OF THE MONAURAL INFORMATION TO THE IPSILATERAL HEMISPHERE CALLS FOR INTEGRITY OF THE CALLOSAL BODY ALONG WITH THE NON CROSSING FIBERS AND THE COMMISSURES OF THE RHOMBOID, MID AND INTERBRAIN. FACILITY: INSTITUTE OF PHYSIOLOGY, GEORGIAN ACADEMY OF SCIENCES,

USSR

YERMAKOVA, YE. G., et al., Ukrainskiy Fizicheskiy Zhurnal, Vol 17, No 5, Kay 72, pp 811-817

molecules as compared to the analogous hydrocarbon molecules. The spectral data suggest that there is hyperconjugation between the Si-H bonds and the phenyl ring. Electronic excitation is found to have a greater effect on the silyl group than on the alkyl group, possibly due to the $(p-d)_{\mathcal{H}}$ -interaction between silicon and the pi electrons of the aromatic ring.

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PROCESSING DATE--27NOV70

TITLE--USE OF A VARIATION PRINCIPLE FOR CALCULATING THERMODYNAMIC FUNCTIONS OF THE INTRAMOLECULAR ROTATION OF SYMMETRIC TOPS -U-AUTHOR-(03)-MOSIN, A.M. NURULAYEV, N.G., MIKHAYLDY, A.M.

COUNTRY OF INFO--USSR

SOURCE-ZH. FIZ. KHIM. 1970, 44(5), 1359

DATE PUBLISHED----70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--THERMODYNAMIC FUNCTION, VECTOR ANALYSIS, MOLECULAR PHYSICS

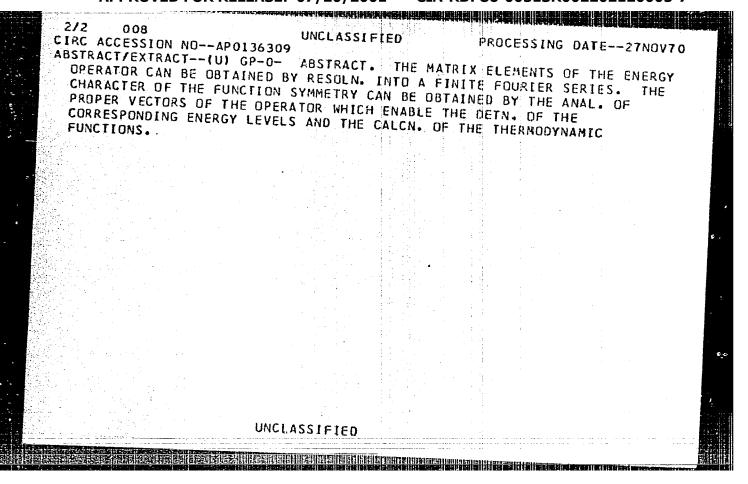
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0875

STEP NO--UR/0076/70/044/005/1359/1359

CIRC ACCESSION NO--APO136309

UNCLASSIFIED



UNCLASSIFIED PROCESSING DATE--20NOV70

TITLE--ALKYL, ARYL, CHLOROSILANE FORMATION DURING THE DIRECT REACTION OF ALKYL, ARYL, CHLORIDES WITH SILICON. 7. CHLORINE TRANSFER MECHANISM IN ALKYL, PASTUKHOVA, Z.V.

CEUNTRY OF INFO--USSB

SOURCE-12V. AKAD. NAUK SSSR, SER. KHIM. 1970, (4), 802-8.

DATE PUBLISHED----70

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS--CHEMICAL SYNTHESIS, CHLORINATED ORGANIC COMPOUND, SILANE, BENZENE DERIVATIVE, ZINC COMPOUND, CADRIUM COMPOUND

GEAFROL MARKING-NO RESTRICTIONS

PROXY REEL/FRAME--3006/1305

STEP NO--UR/0062/70/000/004/0802/0808

CIRC ACCESSION NO--APNI34979

UNCLASSIFIED

The state of the s 012 2/2 UNCLASSIFIED PRUCESSING DATE--20NOV70 CIRC ACCESSION NO--APO134979 ABSTRACT/EXTRACT--(U) GP-0- ADSTRACT. FROM EXAMN; OF THE DIRECT SYNTHESIS OF CHLORUSTLAMES OVER A CU; ST MASS, WHICH WAS EXAMD. REPEATEDLY DURING THE REACTION FOR ITS CONTENT OF CO, CU AND ZN, IT WAS SHOWN THAT SYNTHESIS OF PHENYLCHLOROSILANES IS DIRECTLY THE RESULT OF FORMATION OF CUCL IN THE REACTION OF PHOL WITH CU. FOLLOWED BY REDN. BY SI. THE CL TRANSFER TO CU, THEN TO SI, OCCURS AS A GENERAL SYMPTOM OF DIRECT SYNTHESIS OF CHLOROSILANES IN GENERAL. PROMOTERS IN THE FORM OF ZN OR CD OR THEIR CHEGRIDES IN THE REACTION MASS APPEAR TO FUNCTION THROUGH THE INTERMEDIATE FORMATION OF MONOCHLORIDES OF ZN AND CD AND TRANSFER OF THE CL FROM CU TO THESE. THIS APPEARS TO BE MORE FAVORABLE ENERGETICALLY THAN IS THE FORMATION OF CUCL FROM CU PROPER AND PHOLE. NUMEROUS KINETIC AND YIELD DATA WERE SHUWN GRAPHICALLY. UMCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"

USSR

UDC 621.4/.6:533.6

KALMYKOV, I. I., and MOSIN, I. I.

"Effect of Design Execution of Nozzle on the Performance of the Ejector Stage With a Conical Mixing Chamber"

Tr. Kazan. aviats. in-ta (Transactions of the Kazan' Aviation Institute), Vypusk (Issue) 114, 1970, pp 48-57 (from RZh-Mekhanika, No 12, Dec 70, Abstract No 12B464, by I. M. Baskin)

Translation: Results of an experimental study of the effect that the design execution of a working nozzle has on the performance of the ejector stage are presented. The experimental stand consisted of a two-stage ejector; supersonic conical nozzles with different design execution of the intake and outlet sections and with different-sized cylindrical sections were used as the units studied. The shape of the design elements was shown to markedly affect the ejector performance. For example, the best results correspond to use of a jet with a conical intake section and a smooth intake. It is noted that the optimal nozzle operating regime in the ejector system is the underexpansion regime.

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UNCLASSIFIED PROCESSING DATE-11SEP70
DISEASE -UAUTHOR--MOSIN, L.I.. YAKOVIEV. V.N.

COUNTRY OF INFO--USSR

SOURCE--VRACHEBNOYE DELO, 1970, NR 3, PP 104-107

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-HEART DISEASE, BLOOD VESSEL, ATHEROSCLEROSIS, CORONARY BLOOD CIRCULATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/0979

STEP NO--UR/0475/70/000/003/0104/0107

CIRC ACCESSION NO--APO102918

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002202120005-7"